```
   000000000     PPPPPPPPPPPP        CCCCCCCCCCCC     000000000     MMM         MMM
   000000000     PPPPPPPPPPPP        CCCCCCCCCCCC     000000000     MMM         MMM
   000000000     PPPPPPPPPPPP        CCCCCCCCCCCC     000000000     MMM         MMM
000         000  PPP         PPP  CCC             000         000  MMMMMMM   MMMMMMM
000         000  PPP         PPP  CCC             000         000  MMMMMMM   MMMMMMM
000         000  PPP         PPP  CCC             000         000  MMMMMMM   MMMMMMM
000         000  PPP         PPP  CCC             000         000  MMM   MMM   MMM
000         000  PPP         PPP  CCC             000         000  MMM   MMM   MMM
000         000  PPP         PPP  CCC             000         000  MMM   MMM   MMM
000         000  PPPPPPPPPPPP     CCC             000         000  MMM         MMM
000         000  PPPPPPPPPPPP     CCC             000         000  MMM         MMM
000         000  PPPPPPPPPPPP     CCC             000         000  MMM         MMM
000         000  PPP              CCC             000         000  MMM         MMM
000         000  PPP              CCC             000         000  MMM         MMM
000         000  PPP              CCC             000         000  MMM         MMM
000         000  PPP              CCC             000         000  MMM         MMM
000         000  PPP              CCC             000         000  MMM         MMM
000         000  PPP              CCC             000         000  MMM         MMM
   000000000     PPP                 CCCCCCCCCCCC     000000000     MMM         MMM
   000000000     PPP                 CCCCCCCCCCCC     000000000     MMM         MMM
   000000000     PPP                 CCCCCCCCCCCC     000000000     MMM         MMM
```

```
  OOOOOO    PPPPPPPP      CCCCCCCC    OOOOOO    MM      MM  DDDDDDDD      AAAAAA    TTTTTTTTTT    AAAAAA
  OOOOOO    PPPPPPPP      CCCCCCCC    OOOOOO    MM      MM  DDDDDDDD      AAAAAA    TTTTTTTTTT    AAAAAA
OO      OO  PP      PP  CC          OO      OO  MMMM  MMMM  DD      DD  AA      AA      TT      AA      AA
OO      OO  PP      PP  CC          OO      OO  MMMM  MMMM  DD      DD  AA      AA      TT      AA      AA
OO      OO  PP      PP  CC          OO      OO  MM  MM  MM  DD      DD  AA      AA      TT      AA      AA
OO      OO  PP      PP  CC          OO      OO  MM  MM  MM  DD      DD  AA      AA      TT      AA      AA
OO      OO  PPPPPPPP    CC          OO      OO  MM      MM  DD      DD  AA      AA      TT      AA      AA
OO      OO  PPPPPPPP    CC          OO      OO  MM      MM  DD      DD  AA      AA      TT      AA      AA
OO      OO  PP          CC          OO      OO  MM      MM  DD      DD  AAAAAAAAAA      TT      AAAAAAAAAA
OO      OO  PP          CC          OO      OO  MM      MM  DD      DD  AAAAAAAAAA      TT      AAAAAAAAAA
OO      OO  PP          CC          OO      OO  MM      MM  DD      DD  AA      AA      TT      AA      AA      ....
OO      OO  PP          CC          OO      OO  MM      MM  DD      DD  AA      AA      TT      AA      AA      ....
  OOOOOO    PP            CCCCCCCC    OOOOOO    MM      MM  DDDDDDDD    AA      AA      TT      AA      AA      ....
  OOOOOO    PP            CCCCCCCC    OOOOOO    MM      MM  DDDDDDDD    AA      AA      TT      AA      AA      ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
0001  0 MODULE  OPC$OPCOMDATA(
0002  0                 LANGUAGE (BLISS32),
0003  0                 IDENT = 'V04-000'
0004  0                ) =
0005  1 BEGIN
0006  1
0007  1 !****************************************************************************
0008  1 !*                                                                          *
0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
0010  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
0011  1 !*  ALL RIGHTS RESERVED.                                                    *
0012  1 !*                                                                          *
0013  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED    *
0014  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE    *
0015  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER    *
0016  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY    *
0017  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY    *
0018  1 !*  TRANSFERRED.                                                            *
0019  1 !*                                                                          *
0020  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE    *
0021  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT    *
0022  1 !*  CORPORATION.                                                            *
0023  1 !*                                                                          *
0024  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS    *
0025  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
0026  1 !*                                                                          *
0027  1 !*                                                                          *
0028  1 !****************************************************************************
0029  1
0030  1 !++
0031  1 ! Facility:
0032  1 !
0033  1 !       OPCOM
0034  1 !
0035  1 ! Abstract:
0036  1 !
0037  1 !       This module contains the definitions of the data structures used
0038  1 !       by OPCOM.  All global variables and constants are defined here.
0039  1 !
0040  1 ! Environment:
0041  1 !
0042  1 !       VAX/VMS operating system
0043  1 !
0044  1 ! Author:
0045  1 !
0046  1 !       Steven T. Jeffreys
0047  1 !
0048  1 ! Creation date:
0049  1 !
0050  1 !       December 16, 1980
0051  1 !
0052  1 ! Revision history:
0053  1 !
0054  1 !       V03-004 CWH3169         CW Hobbs                        5-May-1984
0055  1 !               Second pass for cluster-wide OPCOM:
0056  1 !                - Add BYPASS_PRIV mask
0057  1 !                - Change timer delta from 15 seconds to 5 minutes
```

```
0058  1 !                    - Add SYI_SWPOUTPGCNT and LOGTIME_COUNTER, reorder data
0059  1 !
0060  1 !        V03-003 CWH3003         CW Hobbs                        16-Sep-1983
0061  1 !                Add an audit trail
0062  1 !
0063  1 !        V03-002 CWH3001         CW Hobbs                        30-Jul-1983
0064  1 !                Various and sundry things to make OPCOM distributed
0065  1 !                across the cluster.
0066  1 !
0067  1 !        V03-001 STJ3030         Steven T. Jeffreys,             05-Oct-1982
0068  1 !                - Added list head for implicitly canceled requests.
0069  1 !                - Defined FLUSH_PENDING global status flag.
0070  1 !
0071  1 !        V02-004 STJ0220         Steven T. Jeffreys,             17-Feb-1982
0072  1 !                - Added list head for implicitly disabled operators.
0073  1 !
0074  1 !        V02-003 STJ0158         Steven T. Jeffreys,             8-Feb-1982
0075  1 !                - Increased time stamp wait time to 5 minutes.
0076  1 !
0077  1 !        V02-002 STJ0081         Steven T. Jeffreys,             2-Aug-1981
0078  1 !                Changed default logfile name to SYS$MANAGER:OPERATOR.LOG.
0079  1 !
0080  1 !--
0081  1
0082  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
0083  1 LIBRARY 'LIB$:OPCOMLIB';
0084  1
0085  1 !
0086  1 ! NOTE:  Global storage is arranged to improve page faulting behaviour.  The
0087  1 !        following order is attempted:
0088  1 !                - data used only during initialization
0089  1 !                - infrequently used data
0090  1 !                - frequently used data
0091  1 !
0092  1 GLOBAL
0093  1          !
0094  1          ! OPRENABLE message used by OPCOM_INIT to enable
0095  1          ! the default operator terminal, OPA0.  The message
0096  1          ! is not broadcasted.
0097  1          !
0098  1          MSG1            : $bblock  [OPC$K_COMHDRSIZ+31]          ! OPA0 ENABLE request
0099  1                            INITIAL (WORD (MSG$_OPRQST),           ! Message type code
0100  1                                     WORD (0),                     ! No reply mailbox
0101  1                                     LONG (-1),                    ! Privilege mask
0102  1                                     LONG (-1),                    ! Privilege mask
0103  1                                     LONG (%X'010004'),            ! Sender UIC = [1,4]
0104  1                                     LONG (%ASCII'SYST'),          ! Username = "SYSTEM      "
0105  1                                     LONG (%ASCII'EM  '),          !
0106  1                                     LONG (%ASCII'    '),          !
0107  1                                     LONG (%ASCII'SYST'),          ! Account = "SYSTEM  "
0108  1                                     LONG (%ASCII'EM  '),          !
0109  1                                     BYTE (4),                     ! Base priority
0110  1                                     BYTE (0),                     ! Unused
0111  1                                     !
0112  1                                     BYTE (OPC$_X_OPRENABLE),      ! Set request code
0113  1                                     BYTE (OPC$K_SYSTEM),          ! Set scope to SYSTEM
0114  1                                     LONG (OPC$M_NOBRD),           ! Do not broadcast this message
```

```
;  115          0115  1                                LONG (OPC$M_PERMOPER),        ! Make OPA0 a permanent operator
;  116          0116  1                                LONG (KNOWN_ATTN_MASK1),      ! Receive all requests
;  117          0117  1                                LONG (KNOWN_ATTN_MASK2),
;  118          0118  1                                LONG (1),                     ! Set request ID
;  119          0119  1                                LONG (0),                     ! UIC
;  120          0120  1                                BYTE (4),                     ! Character count
;  121          0121  1                                LONG (%ASCII'OPA0')           ! Operator device name
;  122          0122  1                            ),
;  123          0123  1          OPA0_ENABLE_MSG : $bblock  [DSC$K_S_BLN]            ! Descriptor for OPA0 enable request
;  124          0124  1                            INITIAL (LONG (OPC$K_COMHDRSIZ+31), LONG (MSG1)),
;  125          0125  1
;  126          0126  1 !
;  127          0127  1 ! LOGFILE INIT message used by OPCOM_INIT to
;  128          0128  1 ! initialize the system operator log file.
;  129          0129  1 !
;  130          0130  1          MSG2            : $bblock  [OPC$K_COMHDRSIZ+31]     ! LOGFILE INIT request
;  131          0131  1                            INITIAL (WORD (MSG$_OPRQST),      ! Message type code
;  132          0132  1                                     WORD (0),                ! No reply mailbox
;  133          0133  1                                     LONG (-1),               ! Privilege mask
;  134          0134  1                                     LONG (-1),               ! Privilege mask
;  135          0135  1                                     LONG (%X'010004'),       ! Sender UIC = [1,4]
;  136          0136  1                                     LONG (%ASCII'SYST'),     ! Username = "SYSTEM      "
;  137          0137  1                                     LONG (%ASCII'EM  '),     !
;  138          0138  1                                     LONG (%ASCII'    '),     !
;  139          0139  1                                     LONG (%ASCII'SYST'),     ! Account = "SYSTEM  "
;  140          0140  1                                     LONG (%ASCII'EM  '),     !
;  141          0141  1                                     BYTE (4),                ! Base priority
;  142          0142  1                                     BYTE (0),                ! Unused
;  143          0143  1                                     !
;  144          0144  1                                     BYTE (OPC$_X_LOGFILE),   ! Set request code
;  145          0145  1                                     BYTE (OPC$K_SYSTEM),     ! Set scope to SYSTEM
;  146          0146  1                                     LONG (0),                !
;  147          0147  1                                     LONG (OPC$M_INITLOG),    ! Initialize the logfile
;  148          0148  1                                     LONG (OPC$M_NM_CENTRL),  ! Notify CENTRAL operators
;  149          0149  1                                     LONG (0),                ! Unused
;  150          0150  1                                     LONG (2),                ! Request ID
;  151          0151  1                                     LONG (0),                ! UIC
;  152          0152  1                                     BYTE (4),                ! Character count
;  153          0153  1                                     LONG (%ASCII'OPA0')      ! Operator device name
;  154          0154  1                                 ),
;  155          0155  1          LOGFILE_MSG     : $bblock  [DSC$K_S_BLN]            ! Descriptor for LOGFILE INIT request
;  156          0156  1                            INITIAL (LONG (OPC$K_COMHDRSIZ+31), LONG (MSG2)),
;  157          0157  1 !
;  158          0158  1 ! End of init-only data
;  159          0159  1 !
;  160          0160  1
;  161          0161  1          !
;  162          0162  1          ! Define RMS control structures for the logfile.
;  163          0163  1          !
;  164          0164  1          LOGFILE_RES     : VECTOR [NAM$C_MAXRSS, BYTE],  ! Result name string
;  165        P 0165  1          LOGFILE_NAM     : $NAM  (
;  166        P 0166  1                                  RSA=LOGFILE_RES,        ! Result buffer address
;  167        P 0167  1                                  RSS=NAM$C_MAXRSS        ! Result buffer length
;  168          0168  1                                 ),
;  169        P 0169  1          LOGFILE_FAB     : $FAB  (
;  170        P 0170  1                                  FAC=(PUT),              ! WRITE access only
;  171        P 0171  1                                  RAT=CR,                 ! Record ATtributes
```

```
P 0172  1                                   ORG=SEQ,                    ! Sequntial file
P 0173  1                                   RFM=VAR,                    ! Variable length records
P 0174  1                                   NAM=LOGFILE_NAM,            ! Name block
P 0175  1                                   FNM='SYS$MANAGER:OPERATOR.LOG'
  0176  1                                  ),
  0177  1
P 0178  1          LOGFILE_RAB     : $RAB  (
P 0179  1                                   FAB=LOGFILE_FAB
  0180  1                                  ),
  0181  1
  0182  1          !
  0183  1          ! The following data structure is vector of list headers
  0184  1          ! for each class of operator.  The format of the list head is:
  0185  1          !
  0186  1          !       +-------------------------------+
  0187  1          !       !      Pointer to first OCD     !      (longword)
  0188  1          !       +-------------------------------+
  0189  1          !       !       Length of OCD list      !      (longword)
  0190  1          !       +-------------------------------+
  0191  1          !
  0192  1          ! There is one such entry for each class of operator, SYSTEM,
  0193  1          ! GROUP, and USER, as well as a spare entry at the end of the vector.
  0194  1          ! The list pointed to by the list header is a doubly linked list of
  0195  1          ! OCD data structures.
  0196  1          !
  0197  1          OCD_VECTOR      : VECTOR [8,LONG],
  0198  1
  0199  1          !
  0200  1          ! Various and sundry useful variables.
  0201  1          !
  0202  1          DISABLED_OPER_Q : VECTOR [2]                        ! List head
  0203  1                            INITIAL (DISABLED_OPER_Q,DISABLED_OPER_Q),
  0204  1          CANCELED_RQST_Q : VECTOR [2]                        ! List head
  0205  1                            INITIAL (CANCELED_RQST_Q,CANCELED_RQST_Q),
  0206  1          UNKNOWN_MESSAGE_COUNT : LONG,                       ! Count of unknowm message types received
  0207  1          REQUEST_NUMBER  : LONG,                             ! Current request number
  0208  1          NEXT_SEQUENCE   : LONG,                             ! Sequence returned by CLUSUTIL_NEXT_SEQUENCE
  0209  1          OPER_MBX_CHAN   : WORD,                             ! Channel to MBA2
  0210  1          OPER_IDENT_NUM  : WORD,                             ! Current oper ident
  0211  1          OPER_MBX_NAME   : $string_desc ('_MBA2:'),          ! String descriptor
  0212  1          DEVICE_FAO      : $string_desc ('!AC!UW'),          ! Device FAO control string
  0213  1          MBX_FAO         : $string_desc ('MB!UW'),           ! FAO control string
  0214  1          LOGFILE_OPEN    : LONG,                             ! Boolean
  0215  1          BYPASS_PRIV     : $bblock [8]                       ! Mask to enable or clear BYPASS priv
  0216  1                            PRESET ([PRV$V_BYPASS] = 1),
  0217  1          LCL_NODENAME    : $desc_block;                      ! Local nodename (DECnet or VAXcluster)
  0218  1 !
  0219  1 !
  0220  1 ! Define segments for cluster data, most have no meaning unless GBLSTS_K_IN_VAXcluster is true.
  0221  1 !
  0222  1 GLOBAL
  0223  1          SEQ_WIDTH_DEF   : LONG INITIAL (2+8),               ! Eight bits for index, two for sequence
  0224  1          SEQ_WIDTH       : LONG,                             ! Width of seed
  0225  1          SEQ_SEED        : LONG,                             ! 12 bit seed to make unique sequence numbers
  0226  1          LCL_CSID        : LONG,                             ! CSID for the local node
  0227  1          LCL_NOD         : $ref_bblock,                      ! Pointer to NOD block for local node
  0228  1          NOD_HEAD        : VECTOR [2, LONG]                  ! Queue header for all node blocks
```

```
229          0229  1                                INITIAL (NOD_HEAD, NOD_HEAD);
230          0230  1
231          0231  1 GLOBAL BIND
232          0232  1         WAIT_DELTA      = UPLIT (5 * 60 * -10000000, -1);! Wait time for timer AST (5 minutes)
233          0233  1
234          0234  1 GLOBAL
235          0235  1         SYI_SWPOUTPGCNT : LONG,                          ! Swap out page count
236          0236  1         LOGTIME_COUNTER : LONG INITIAL (100),            ! Used to stamp logfile every so many timestamps,
237          0237  1                                                          !  initial to large # so first time it stamps.
238          0238  1         !
239          0239  1         ! Define the global status bitvector.  It is used to maintain status info global to all of OPCOM.
240          0240  1         !
241          0241  1         GLOBAL_STATUS   : BITVECTOR [32];
242          0242  1
243          0243  1 !
244          0244  1 ! Define SCB table.  Each entry describes a type of data structure.
245          0245  1 ! The information kept on each data structure type includes the size
246          0246  1 ! (in bytes) of the data structure, the sequence number of the data
247          0247  1 ! structure, the count of preallocated data structures kept on a
248          0248  1 ! look-aside list (LAL), and the LAL header.  The SCB table is indexed
249          0249  1 ! by the data structure type.  The type is defined by the SCB_DEF
250          0250  1 ! macro, which makes the SCB_DEF invocations order independent.
251          0251  1 ! The SCB table has a 1 origin.
252          0252  1 !
253          0253  1
254          0254  1 %ASSIGN (COUNTER,1);                                     ! Set table origin
255          0255  1 PSECT GLOBAL = $SCB_TABLE;
256          0256  1 PSECT OWN = $SCB_TABLE;
257          0257  1 GLOBAL
258          0258  1         SCB_TABLE       : VECTOR [0];                    ! Start of SCB table
259          0259  1         !
260          0260  1         ! Define table entries.  Input parameters are the structure type
261          0261  1         ! and the number of structures to preallocate for the look-aside list.
262          0262  1         !
263          0263  1         SCB_DEF (RQCB,32);
264          0264  1         SCB_DEF (MCB,32);
265          0265  1         SCB_DEF (OCD,4);
266          0266  1         SCB_DEF (NOD,16);
267          0267  1
268          0268  1 !
269          0269  1 ! Define the minumum and maximum data structure types.
270          0270  1 ! Note that this must come after the last SCB_DEF macro
271          0271  1 ! call, as the macro defines the literals referenced.
272          0272  1 !
273          0273  1 GLOBAL LITERAL
274          0274  1
275          0275  1         MIN_DS_TYPE     = MIN   (RQCB_K_TYPE,
276          0276  1                                  MCB_K_TYPE,
277          0277  1                                  OCD_K_TYPE,
278          0278  1                                  NOD_K_TYPE
279          0279  1                                 ),
280          0280  1
281          0281  1         MAX_DS_TYPE     = MAX   (RQCB_K_TYPE,
282          0282  1                                  MCB_K_TYPE,
283          0283  1                                  OCD_K_TYPE,
284          0284  1                                  NOD_K_TYPE
285          0285  1                                 ),
```

```
;  286          0286  1 !
;  287          0287  1 ! Define the minimum and maximum SCOPE values.
;  288          0288  1 !
;  289          0289  1         MIN_SCOPE       = MIN   (OPC$K_SYSTEM,
;  290          0290  1                                  OPC$K_GROUP,
;  291          0291  1                                  OPC$K_USER,
;  292          0292  1                                  OPC$K_UNSPEC
;  293          0293  1                                 ),
;  294          0294  1
;  295          0295  1         MAX_SCOPE       = MAX   (OPC$K_SYSTEM,
;  296          0296  1                                  OPC$K_GROUP,
;  297          0297  1                                  OPC$K_USER,
;  298          0298  1                                  OPC$K_UNSPEC
;  299          0299  1                                 );
;  300          0300  1
;  301          0301  1 GLOBAL BIND
;  302          0302  1         ascid_INVALIDRQCB = %ASCID 'Invalid RQCB in cluster message' : block [, BYTE];
;  303          0303  1
;  304          0304  1 END
;  305          0305  0 ELUDOM


                                                                .TITLE  OPC$OPCOMDATA
                                                                .IDENT  \V04-000\

                                                                .PSECT  $SCB_ENTRY,NOEXE,2

                                        0020  0094  00000 SCB:  .WORD   148, 32                                  ;
                                                00# 00004       .BYTE   0[4]                                      ;
                                00000000' 00000000' 00008       .ADDRESS SCB+8, SCB+8                            ;
                                        0020  003C  00010 SCB:  .WORD   60, 32                                   ;
                                                00# 00014       .BYTE   0[4]                                      ;
                                00000000' 00000000' 00018       .ADDRESS SCB+8, SCB+8                            ;
                                        0004  00D8  00020 SCB:  .WORD   216, 4                                   ;
                                                00# 00024       .BYTE   0[4]                                      ;
                                00000000' 00000000' 00028       .ADDRESS SCB+8, SCB+8                            ;
                                        0010  0056  00030 SCB:  .WORD   86, 16                                   ;
                                                00# 00034       .BYTE   0[4]                                      ;
                                00000000' 00000000' 00038       .ADDRESS SCB+8, SCB+8                            ;

                                                                .PSECT  $SCB_TABLE,NOEXE,2

                                                    00000 SCB_TABLE::
                                                                .BLKB   0
                                        00000000' 00000 SCB_TBL:.ADDRESS SCB                                     ;
                                        00000000' 00004 SCB_TBL:.ADDRESS SCB                                     ;
                                        00000000' 00008 SCB_TBL:.ADDRESS SCB                                     ;
                                        00000000' 0000C SCB_TBL:.ADDRESS SCB                                     ;

                                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

45  50  4F  3A  52  45  47  41  4E  41  4D  24  53  59  53  00000 P.AAA:  .ASCII  \SYS$MANAGER:OPERATOR.LOG\       ;
                        47  4F  4C  2E  52  4F  54  41  52  0000F                                                  ;
                                    3A  32  41  42  4D  5F  00018 P.AAB:  .ASCII  \_MBA2:\                        ;
                                    57  55  21  43  41  21  0001E P.AAC:  .ASCII  \TAC!UW\                        ;
                                        57  55  21  42  4D  00024 P.AAD:  .ASCII  \MB!UW\                         ;
                                                            00029         .BLKB   3
```

```
                                                FFFFFFFF  4D2FA200  0002C P.AAE:  .LONG   1294967296, -1
6E  69  20  42  43  51  52  20  64  69  6C  61  76  6E  49  00034 P.AAG:  .ASCII  \Invalid RQCB in cluster message\<0>
67  61  73  73  65  6D  20  72  65  74  73  75  6C  63  20  00043
                                                    00  65  00052
                                                  010E001F  00054 P.AAF:  .LONG   17694751
                                                  00000000' 00058         .ADDRESS P.AAG

                                                                          .PSECT  $GLOBAL$,NOEXE,2

                                                      0008  00000 MSG1::  .WORD   8
                                                      0000  00002         .WORD   0
                                                  FFFFFFFF  00004         .LONG   -1
                                                  FFFFFFFF  00008         .LONG   -1
                                                  00010004  0000C         .LONG   65540
                                            54  53  59  53  00010         .ASCII  \SYST\
                                            20  20  4D  45  00014         .ASCII  \EM  \
                                            20  20  20  20  00018         .ASCII  \    \
                                            54  53  59  53  0001C         .ASCII  \SYST\
                                            20  20  4D  45  00020         .ASCII  \EM  \
                                                        04  00024         .BYTE   4
                                                        00  00025         .BYTE   0
                                                        0A  00026         .BYTE   10
                                                        01  00027         .BYTE   1
                                                  00000002  00028         .LONG   2
                                                  00000002  0002C         .LONG   2
                                                  00FFF1FF  00030         .LONG   16773631
                                                  00000000  00034         .LONG   0
                                                  00000001  00038         .LONG   1
                                                  00000000  0003C         .LONG   0
                                                        04  00040         .BYTE   4
                                            30  41  50  4F  00041         .ASCII  \OPA0\
                                                            00045         .BLKB   3
                                                  00000045  00048 OPA0_ENABLE_MSG::
                                                                          .LONG   69
                                                  00000000' 0004C         .ADDRESS MSG1
                                                      0008  00050 MSG2::  .WORD   8
                                                      0000  00052         .WORD   0
                                                  FFFFFFFF  00054         .LONG   -1
                                                  FFFFFFFF  00058         .LONG   -1
                                                  00010004  0005C         .LONG   65540
                                            54  53  59  53  00060         .ASCII  \SYST\
                                            20  20  4D  45  00064         .ASCII  \EM  \
                                            20  20  20  20  00068         .ASCII  \    \
                                            54  53  59  53  0006C         .ASCII  \SYST\
                                            20  20  4D  45  00070         .ASCII  \EM  \
                                                        04  00074         .BYTE   4
                                                        00  00075         .BYTE   0
                                                        0B  00076         .BYTE   11
                                                        01  00077         .BYTE   1
                                                  00000000  00078         .LONG   0
                                                  00000001  0007C         .LONG   1
                                                  00000001  00080         .LONG   1
                                                  00000000  00084         .LONG   0
                                                  00000002  00088         .LONG   2
                                                  00000000  0008C         .LONG   0
                                                        04  00090         .BYTE   4
                                            30  41  50  4F  00091         .ASCII  \OPA0\
```

```
                 00095          .BLKB   3
00000045         00098 LOGFILE_MSG::
                                .LONG   69                                      ;
00000000'        0009C          .ADDRESS MSG2                                   ;
                 000A0 LOGFILE_RES::
                                .BLKB   255
                 0019F          .BLKB   1
      02         001A0 LOGFILE_NAM::
                                .BYTE   2                                       ;
      60         001A1          .BYTE   96                                      ;
      FF         001A2          .BYTE   -1                                      ;
      00         001A3          .BYTE   0                                       ;
00000000'        001A4          .ADDRESS LOGFILE_RES                            ;
      00         001A8          .BYTE   0                                       ;
      00         001A9          .BYTE   0                                       ;
      00         001AA          .BYTE   0                                       ;
      00         001AB          .BYTE   0                                       ;
00000000         001AC          .LONG   0                                       ;
00000000         001B0          .LONG   0                                       ;
    0000#        001B4          .WORD   0[8]                                    ;
    0000#        001C4          .WORD   0[3]                                    ;
    0000#        001CA          .WORD   0[3]                                    ;
00000000         001D0          .LONG   0                                       ;
00000000         001D4          .LONG   0                                       ;
      00         001D8          .BYTE   0                                       ;
      00         001D9          .BYTE   0                                       ;
      00         001DA          .BYTE   0                                       ;
      00         001DB          .BYTE   0                                       ;
      00         001DC          .BYTE   0                                       ;
      00         001DD          .BYTE   0                                       ;
      00#        001DE          .BYTE   0[2]                                    ;
00000000         001E0          .LONG   0                                       ;
00000000         001E4          .LONG   0                                       ;
00000000         001E8          .LONG   0                                       ;
00000000         001EC          .LONG   0                                       ;
00000000         001F0          .LONG   0                                       ;
00000000         001F4          .LONG   0                                       ;
00000000#        001F8          .LONG   0[2]                                    ;
      03         00200 LOGFILE_FAB::
                                .BYTE   3                                       ;
      50         00201          .BYTE   80                                      ;
    0000         00202          .WORD   0                                       ;
00000000         00204          .LONG   0                                       ;
00000000         00208          .LONG   0                                       ;
00000000         0020C          .LONG   0                                       ;
00000000         00210          .LONG   0                                       ;
    0000         00214          .WORD   0                                       ;
      01         00216          .BYTE   1                                       ;
      00         00217          .BYTE   0                                       ;
00000000         00218          .LONG   0                                       ;
      00         0021C          .BYTE   0                                       ;
      00         0021D          .BYTE   0                                       ;
      02         0021E          .BYTE   2                                       ;
      02         0021F          .BYTE   2                                       ;
00000000         00220          .LONG   0                                       ;
00000000         00224          .LONG   0                                       ;
00000000'        00228          .ADDRESS LOGFILE_NAM                            ;
```

```
                                  00000000' 0022C          .ADDRESS P.AAA                                          ;
                                  00000000  00230          .LONG    0                                              ;
                                         18 00234          .BYTE    24                                             ;
                                         00 00235          .BYTE    0                                              ;
                                       0000 00236          .WORD    0                                              ;
                                  00000000  00238          .LONG    0                                              ;
                                       0000 0023C          .WORD    0                                              ;
                                         00 0023E          .BYTE    0                                              ;
                                         00 0023F          .BYTE    0                                              ;
                                  00000000  00240          .LONG    0                                              ;
                                  00000000  00244          .LONG    0                                              ;
                                       0000 00248          .WORD    0                                              ;
                                         00 0024A          .BYTE    0                                              ;
                                         00 0024B          .BYTE    0                                              ;
                                  00000000  0024C          .LONG    0                                              ;
                                         01 00250 LOGFILE_RAB::
                                                           .BYTE    1
                                         44 00251          .BYTE    68                                             ;
                                       0000 00252          .WORD    0                                              ;
                                  00000000  00254          .LONG    0                                              ;
                                  00000000  00258          .LONG    0                                              ;
                                  00000000  0025C          .LONG    0                                              ;
                                      0000# 00260          .WORD    0[3]                                           ;
                                       0000 00266          .WORD    0                                              ;
                                  00000000  00268          .LONG    0                                              ;
                                       0000 0026C          .WORD    0                                              ;
                                         00 0026E          .BYTE    0                                              ;
                                         00 0026F          .BYTE    0                                              ;
                                       0000 00270          .WORD    0                                              ;
                                       0000 00272          .WORD    0                                              ;
                                  00000000  00274          .LONG    0                                              ;
                                  00000000  00278          .LONG    0                                              ;
                                  00000000  0027C          .LONG    0                                              ;
                                  00000000  00280          .LONG    0                                              ;
                                         00 00284          .BYTE    0                                              ;
                                         00 00285          .BYTE    0                                              ;
                                         00 00286          .BYTE    0                                              ;
                                         00 00287          .BYTE    0                                              ;
                                  00000000  00288          .LONG    0                                              ;
                                  00000000' 0028C          .ADDRESS LOGFILE_FAB                                    ;
                                  00000000  00290          .LONG    0                                              ;
                                            00294 OCD_VECTOR::
                                                           .BLKB    32
                         00000000' 00000000' 002B4 DISABLED_OPER_Q::
                                                           .ADDRESS DISABLED_OPER_Q, DISABLED_OPER_Q               ;
                         00000000' 00000000' 002BC CANCELED_RQST_Q::
                                                           .ADDRESS CANCELED_RQST_Q, CANCELED_RQST_Q               ;
                                            002C4 UNKNOWN_MESSAGE_COUNT::
                                                           .BLKB    4
                                            002C8 REQUEST_NUMBER::
                                                           .BLKB    4
                                            002CC NEXT_SEQUENCE::
                                                           .BLKB    4
                                            002D0 OPER_MBX_CHAN::
                                                           .BLKB    2
                                            002D2 OPER_IDENT_NUM::
                                                           .BLKB    2
```

```
                    0006  002D4 OPER_MBX_NAME::
                                      .WORD   6                                   ;
                  01  0E  002D6        .BYTE   14, 1                               ;
          00000000'      002D8        .ADDRESS P.AAB                              ;
                    0006  002DC DEVICE_FAO::
                                      .WORD   6                                   ;
                  01  0E  002DE        .BYTE   14, 1                               ;
          00000000'      002E0        .ADDRESS P.AAC                              ;
                    0005  002E4 MBX_FAO::
                                      .WORD   5                                   ;
                  01  0E  002E6        .BYTE   14, 1                               ;
          00000000'      002E8        .ADDRESS P.AAD                              ;
                         002EC LOGFILE_OPEN::
                                      .BLKB   4
                      00# 002F0 BYPASS_PRIV::
                                      .BYTE   0[3]                                ;
                      20 002F3        .BYTE   32                                  ;
                         002F4        .BLKB   4
                         002F8 LCL_NODENAME::
                                      .BLKB   8
          0000000A       00300 SEQ_WIDTH_DEF::
                                      .LONG   10                                  ;
                         00304 SEQ_WIDTH::
                                      .BLKB   4
                         00308 SEQ_SEED::
                                      .BLKB   4
                         0030C LCL_CSID::
                                      .BLKB   4
                         00310 LCL_NOD::
                                      .BLKB   4
          00000000' 00000000' 00314 NOD_HEAD::
                                      .ADDRESS NOD_HEAD, NOD_HEAD                 ;
                         0031C SYI_SWPOUTPGCNT::
                                      .BLKB   4
          00000064       00320 LOGTIME_COUNTER::
                                      .LONG   100                                 ;
                         00324 GLOBAL_STATUS::
                                      .BLKB   4

                                WAIT_DELTA==        P.AAE
                                RQCB_K_TYPE==       1
                                MCB_K_TYPE==        2
                                OCD_K_TYPE==        3
                                NOD_K_TYPE==        4
                                MIN_DS_TYPE==       1
                                MAX_DS_TYPE==       4
                                MIN_SCOPE==         1
                                MAX_SCOPE==         4
                                ASCID_INVALIDRQCB== P.AAF


;                       PSECT SUMMARY
;
;     Name                    Bytes                       Attributes
;
;  $GLOBAL$                     808  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
```

```
;  $PLIT$          92  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $SCB_TABLE      16  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $SCB_ENTRY      64  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  .  ABS  .        0  NOVEC,NOWRT,NORD ,NOEXE,NOSHR,  LCL,  ABS,  CON,NOPIC,ALIGN(0)



;                         Library Statistics
;
;                                   -------- Symbols --------      Pages       Processing
;      File                         Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1    18619       39         0       1000         00:01.9
;  _$255$DUA28:[OPCOM.OBJ]OPCOMLIB.L32;1   633       27         4         43         00:00.8



;                                COMMAND QUALIFIERS

;      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:OPCOMDATA/OBJ=OBJ$:OPCOMDATA MSRC$:OPCOMDATA/UPDATE=(ENH$:OPCOMDATA)

; Size:         0 code + 980 data bytes
; Run Time:        00:10.2
; Elapsed Time:    00:40.6
; Lines/CPU Min:    1794
; Lexemes/CPU-Min: 30264
; Memory Used:  91 pages
; Compilation Complete
```

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

LOGFILE LIS

OPCOMDEF LIS

OPCOMDATA LIS

OPCOMINI LIS

OPCOMUTIL LIS

OPCOMLIB LIS

OPCDEFTMP LIS

OPCOMMAIN LIS

OPCOMOLD LIS

OPCOMRPLY LIS

OPCCRASH LIS

OPERUTIL LIS

OPCOMRQST LIS